



SABIC® LDPE HP0322NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0322NN is a Low Density Polyethylene grade suitable for producing heavy-duty films and does not contain slip, antiblock and antioxidant additives. It gives outstanding toughness and optical properties in the film.

TYPICAL APPLICATIONS

HP0322NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.33	g/10 min	ASTM D1238
Density			
at 23°C	922	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength	4	g/μm	ASTM D1709
OPTICAL PROPERTIES			
Haze ⁽¹⁾	11	%	ASTM D1003
Gloss			
at 45°	50	-	ASTM D2457
FILM PROPERTIES			
Tensile Properties			
stress at break, MD	31	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	450	%	ASTM D882
strain at break, TD	690	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
Tear Resistance			
MD	8	g/μm	ASTM D1922
TD	6	g/μm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	95	°C	ASTM D1525

(1) Properties have been measured by producing 50 μm film with 2.5 BUR using 100% HP0322NN.